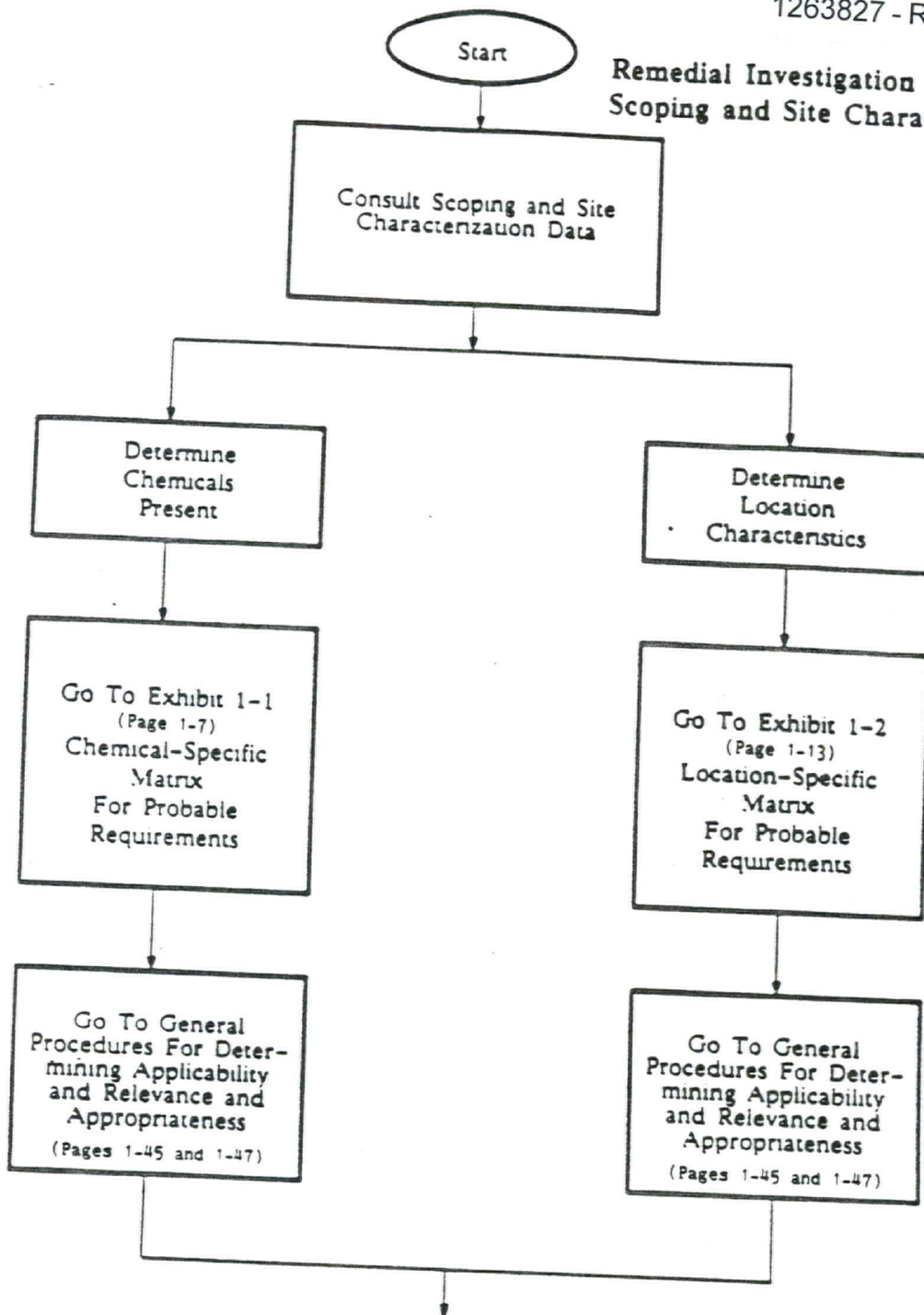


Exhibit 1-4  
Procedure for Identifying ARARs

1263827 - R8 SDMS



Remedial Investigation (RI)--  
Scoping and Site Characterization

**Exhibit 1-4 (cont.)**  
**Procedure for Identifying ARARs**

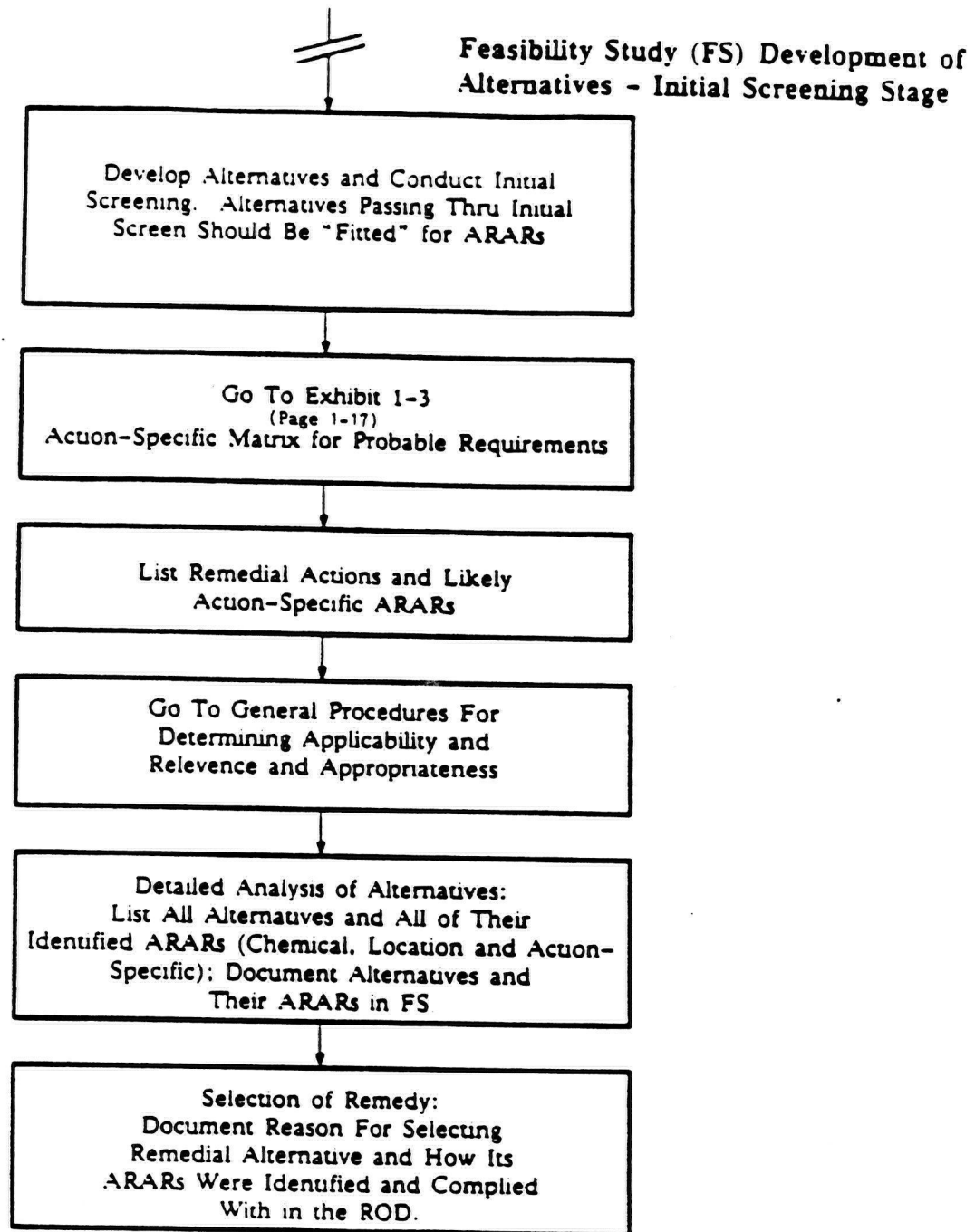
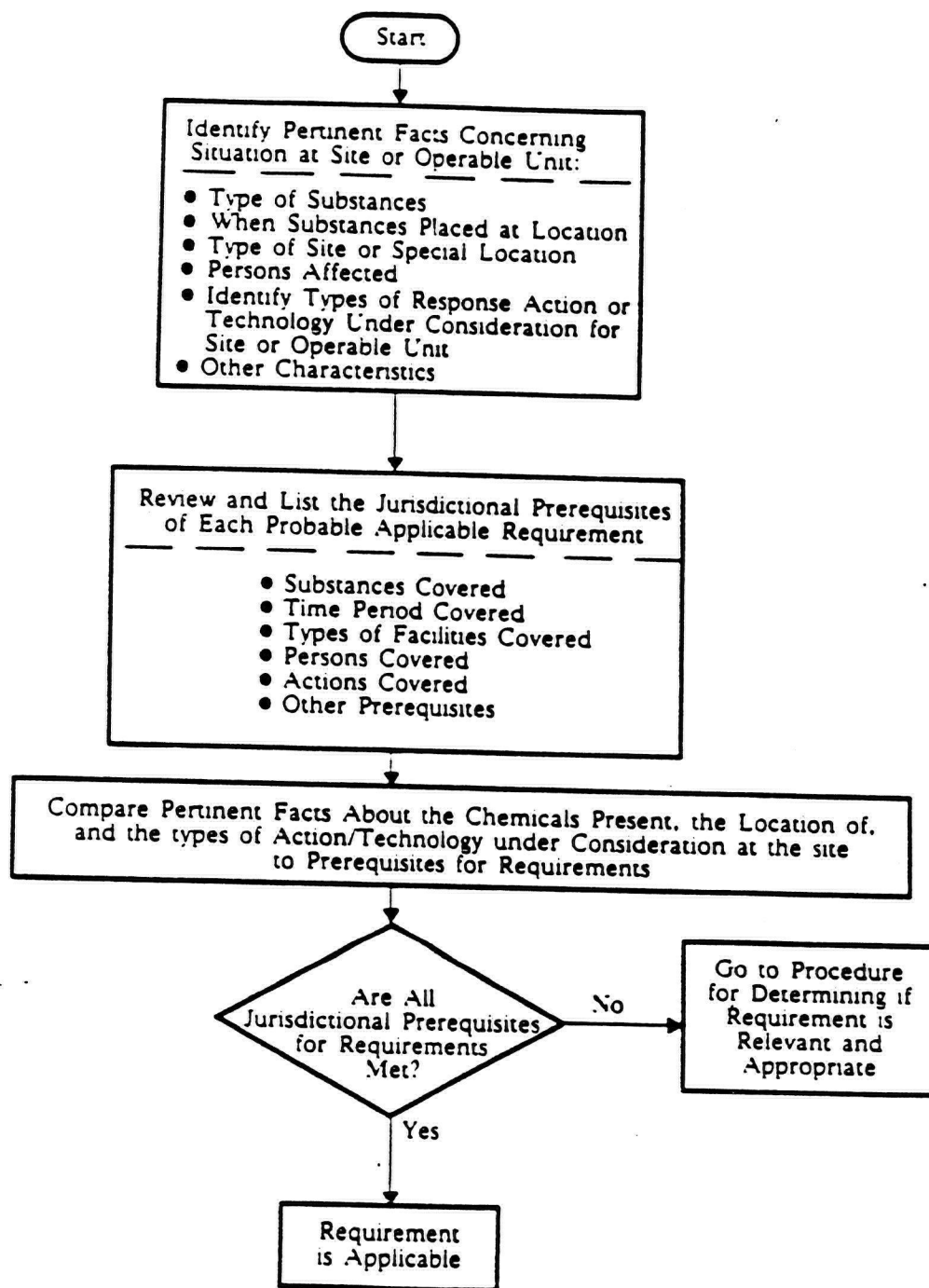
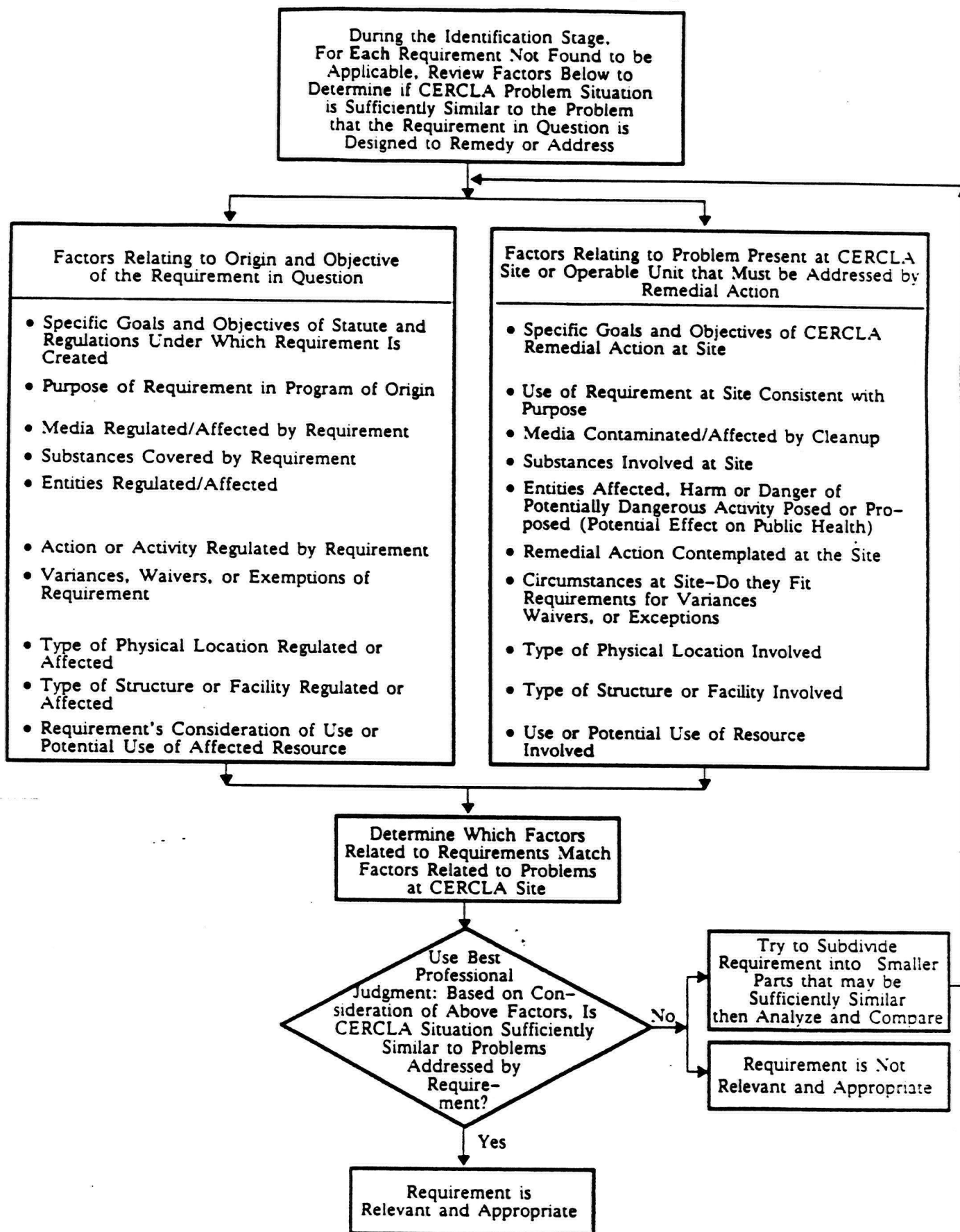


Exhibit 1-5  
General Procedure for Determining  
If Requirement is Applicable

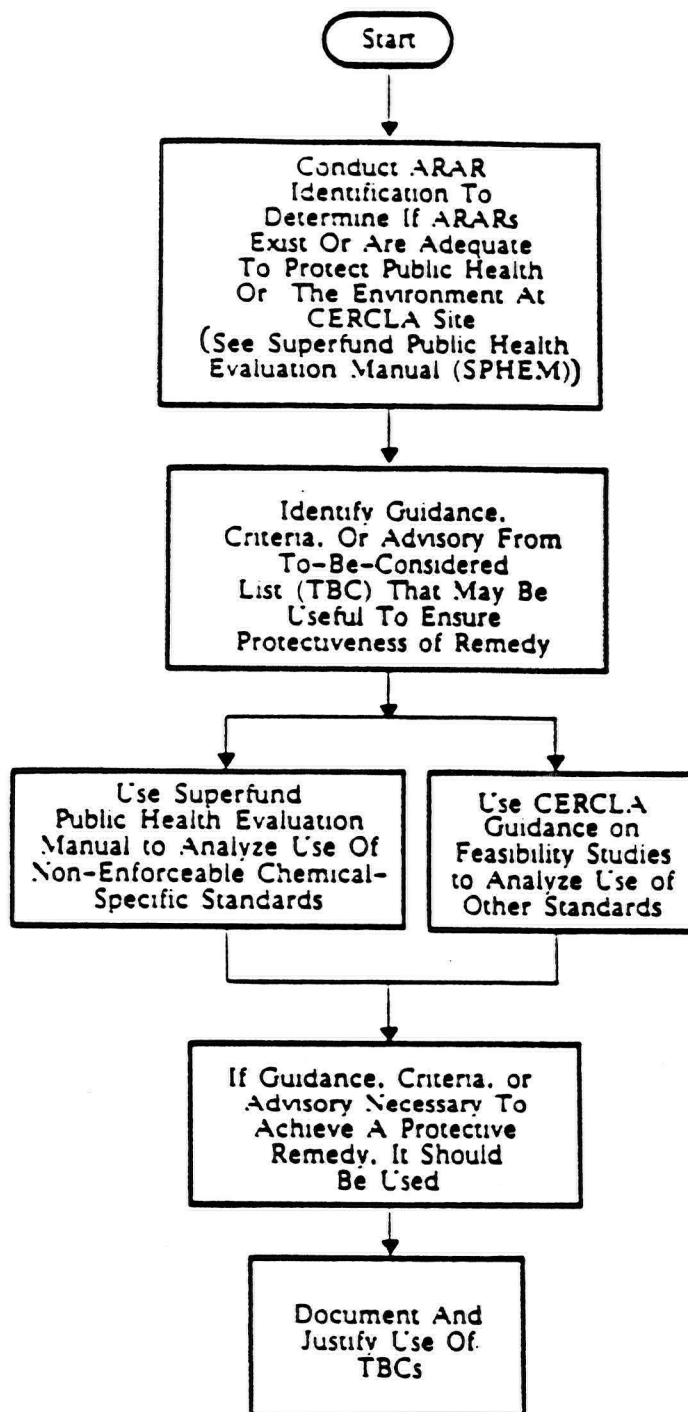


## Exhibit 1-6

# General Procedure for Determining if Requirement is Relevant and Appropriate



**Exhibit 1-7**  
**General Procedure for Determining**  
**if Guidance or Criteria Should be Considered**



## EXHIBIT 1-9

POTENTIALLY APPLICABLE OR RELEVANT AND  
APPROPRIATE REQUIREMENTS \*1. Office of Solid Waste

## o Resource Conservation and Recovery Act of 1976 (42 U.S.C. 6901)

## a. 40 CFR Part 264, for permitted facilities, and 40 CFR Part 265, for interim status facilities.

- Ground-water Protection (40 CFR 264.90-264.101)
- Ground-water Monitoring (40 CFR 265.90-265.94)
- Closure and Post-Closure (40 CFR 264.110-264.120, 265.110-265.120)
- Containers (40 CFR 264.170-264.178, 265.170-265.177)
- Tanks (40 CFR 264.190-264.200, 265.190-265.199)
- Surface Impoundments (40 CFR 264.220-264.249, 265.220-265.230)
- Waste Piles (40 CFR 264.250-264.269, 265.250-265.258)
- Land Treatment (40 CFR 264.270-264.299, 265.270-265.282)
- Landfills (40 CFR 264.300-264.339, 265.300-265.316)
- Incinerators (40 CFR 264.340-264.999, 265.340-265.369)
- Land Disposal Restrictions (40 CFR 268.1-268.50)
- Dioxin-containing Wastes (50 FR 1978). Includes the final rule for the listing of dioxin-containing waste.

## b. Open Dump Criteria - pursuant to RCRA Subtitle D: criteria for classification of solid waste disposal facilities (40 CFR Part 257). Note: Only relevant to nonhazardous wastes.

2. Office of Water

## o The Safe Drinking Water Act (42 U.S.C. 300f)

- a. Maximum Contaminant Levels (chemicals, turbidity, and microbiological contamination) (for drinking water or human consumption) (40 CFR 141.11-141.16).
- b. Maximum Contaminant Level Goals (40 CFR 141.50-141.51, 50 FR 46936)
- c. Underground Injection Control Regulations (40 CFR Parts 144, 145, 146, 147).

## o Clean Water Act (33 U.S.C. 1251)

Requirements established pursuant to sections 301 (effluent limitations), 302 (effluent limitations), 303 (water quality standards, including State water quality standards), 304 (Federal water quality criteria), 306 (national performance standards), 307 (toxic and pretreatment standards, including Federal pretreatment standards for discharge into publicly owned treatment works), 308 (numeric standards for toxics), 402 (national pollutant discharge elimination system), 403 (ocean discharge criteria), and 404 (dredged or fill material) of the Clean Water Act, (33 CFR Parts 320-329, 40 CFR Parts 122, 123, 125, 131, 230, 231, 233, 400-469). Available ambient Water Quality Criteria Documents are listed at 45 FR 79318, November 28, 1980; 49 FR 5831, February 15, 1984; 50 FR 30784, July 29, 1985; 51 FR 22978, June 28, 1986; 51 FR 43665, December 3, 1986; 51 FR 8012, March 7, 1986; 52 FR 6213, March 2, 1987.

## o Marine Protection, Research, and Sanctuaries Act (33 U.S.C. 1401)

Incineration at sea requirements (40 CFR Parts 220-225, 227, 228). See also 40 CFR 125.120-125.124.

\* This is the list of potentially applicable or relevant and appropriate requirements found in the October 2, 1985, Compliance Policy with additions. As additional requirements are promulgated, they must also be considered potentially applicable or relevant and appropriate and added to this list.

EXHIBIT 1-9  
(Continued)

POTENTIALLY APPLICABLE OR RELEVANT AND  
APPROPRIATE REQUIREMENTS

3. Office of Pesticides and Toxic Substances

o Toxic Substances Control Act (15 U.S.C. 2601)

- a. PCB Requirements Generally: 40 CFR Part 761; Manufacturing Processing, Distribution in Commerce, and Use of PCBs and PCB Items (40 CFR 761.20-761.30); Marking of PCBs and PCB Items (40 CFR 761.40-761.45); Storage and Disposal (40 CFR 761.60-761.79); Records and Reports (40 CFR 761.180-761.185). See also 40 CFR 129.105, 750.
- b. Disposal of Waste Material Containing ICDD (40 CFR 775.180-775.197).

4. Office of Air and Radiation

o The Uranium Mill Tailings Radiation Control Act of 1978 (42 U.S.C. 2022)

Uranium mill tailing rules - Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings, (40 CFR Part 192).

o Clean Air Act (42 U.S.C. 7401)

- a. National Ambient Air Quality Standards for total suspended particulates (40 CFR 50.6-50.7).
- b. National Ambient Air Quality Standards for ozone (40 CFR 50.9).
- c. Standards for Protection Against Radiation - high and low level radioactive waste rule, (10 CFR Part 20). See also 10 CFR Parts 10, 40, 60, 61, 72, 960, 961.
- d. National Emissions Standards for Hazardous Air Pollutants for Asbestos, (40 CFR 61.140-61.156). See also 40 CFR Parts 427.110-427.116, 763.
- e. National Emissions Radionuclides (40 CFR Part 61, 10 CFR 20.101-20.108).

EXHIBIT 1-9  
(Continued)

POTENTIALLY APPLICABLE OR RELEVANT AND  
APPROPRIATE REQUIREMENTS

5. Other Federal Requirements

- o OSHA requirements for workers engaged in response or other hazardous waste operations (29 CFR 1910.120).
- o Occupational Safety and Health Act of 1970 (29 U.S.C. 651).
  - a. Occupational Safety and Health Standards (General Industry Standards) (29 CFR Part 1910).
  - b. The Safety and Health Standards for Federal Service Contracts (29 CFR Part 1926).
  - c. The Shipyard and Longshore Standards (29 CFR Parts 1915, 1918).
  - d. Recordkeeping, reporting, and related regulations (29 CFR Part 1904).
  - e. The Health and Safety Standards for Employees engaged in Hazardous Waste Operations. (50 FR 45654)
- o National Historic Preservation Act, 16 U.S.C. 470. Compliance with NEPA required pursuant to 7 CFR Part 650. Protection of Archeological Resources: Uniform Regulations -- Department of Defense (32 CFR Part 229, 229.4), Department of the Interior (43 CFR Part 7, 7.4).
- o Department of Transportation Rules for the Transportation of Hazardous Materials, 49 CFR Parts 107, 171.1-172.558.
- o Endangered Species Act of 1973, 16 U.S.C. 1531. (Generally, 50 CFR Parts 81, 225, 402).
- o Executive Orders related to floodplains (11988) and wetlands (11990) as implemented by EPA's August 6, 1985, Policy on Floodplains and Wetlands Assessments for CERCLA Actions.
- o Wild and Scenic Rivers Act, 16 U.S.C. 1271. Compliance with NEPA required pursuant to 36 CFR Part 297.
- o Fish and Wildlife Coordination Act, 16 U.S.C. 661 note.
- o Fish and Wildlife Improvement Act of 1978, and Fish and Wildlife Act of 1956, 16 U.S.C. 742a note.\*
- o Fish and Wildlife Conservation Act of 1980, 16 U.S.C. 2901. (Generally, 50 CFR Part 83).\*
- o Coastal Zone Management Act of 1972, 16 U.S.C. 1451. (Generally, 15 CFR Part 930 and 15 CFR 923.45 for Air and Water Pollution Control Requirements).
- o Farmland Protection Policy Act, P.L. 97-98 (Generally, 7 CFR Part 658).\*

\*May not be applicable or relevant for many sites.



EXHIBIT 1-10

OTHER FEDERAL CRITERIA, ADVISORIES, GUIDANCE, AND STATE STANDARDS TO BE CONSIDERED \*

1. Federal Criteria, Advisories, and Procedures

- o Health Effects Assessments (HEAs) and Proposed HEAs, ("Health Effects Assessment for (Specific Chemicals), "ECAO, USEPA, 1985).
- o Reference Doses (RFDs), ("Verified Reference Doses of USEPA," ECAO-CIN-475, January 1986).
- o Carcinogen Potency Factors (CPFs), (Table 11, "Health Assessment Document for Tetrachloroethylene (Perchloroethylene)," USEPA, OHEA/6008-82/005F, July 1985).
- o Pesticide registrations and registration data.
- o Pesticide and food additive tolerances and action levels.  
Note: Some tolerances and action levels may pertain and should therefore be considered in certain situations.
- o Waste load allocation procedures, EPA Office of Water (40 CFR Part 125, 130).
- o Federal Sole Source Aquifer requirements (See 52 FR 6873, March 5, 1987).
- o Public health criteria on which the decision to list pollutants as hazardous under Section 112 of the Clean Air Act was based.
- o Guidelines for Ground-Water Classification Under the EPA Ground-Water Protection Strategy.
- o New source performance standards for storage vessels for petroleum liquids (40 CFR 60, Subparts K and Ka).
- o TSCA chemical advisories (2 or 3 issued to date) (no citation).
- o Advisories issued by FWS and NWFS under the Fish and Wildlife Coordination Act.
- o TSCA Compliance Program Policy, ("TSCA Enforcement Guidance Manual - Policy Compendium," USEPA, OEMC, OPTS, March, 1985).
- o OSHA health and safety standards that may be used to protect public health (non-workplace).
- o Health Advisories, EPA Office of Water.
- o EPA Water Quality Advisories, EPA Office of Water, Criteria and Standards Division.

\* This list updates the list of other Federal criteria, advisories, and guidance, to be considered in the October 5, 1985, Compliance Policy. As additional or revised criteria, advisories, guidance, or standards are issued, they should be added to this list and also considered.

EXHIBIT 1-10  
(Continued)

OTHER FEDERAL CRITERIA, ADVISORIES, GUIDANCE, AND STATE STANDARDS TO BE CONSIDERED

2. USEPA RCRA Guidance Documents

o Draft Alternate Concentration Limits (ACL) Guidance

a. EPA's RCRA Design Guidelines

- (1) Surface Impoundments, Liners Systems, Final Cover and Freeboard Control.
- (2) Waste Pile Design - Liner Systems.
- (3) Land Treatment Units.
- (4) Landfill Design - Liner Systems and Final Cover.

b. Permitting Guidance Manuals

- (1) Permit Applicant's Guidance Manual for Hazardous Waste Land Treatment, Storage, Disposal Facilities.
- (2) Permit Writer's Guidance Manual for Hazardous Waste Land Treatment, Storage, and Disposal Facilities.
- (3) Permit Writer's Guidance Manual for Subpart F.
- (4) Permit Applicant's Guidance Manual for the General Facility Standards.
- (5) Waste Analysis Plan Guidance Manual.
- (6) Permit Writer's Guidance Manual for Hazardous Waste Tanks.
- (7) Model Permit Application for Existing Incinerators.
- (8) Guidance Manual for Evaluating Permit Applications for the Operation of Hazardous Waste Incinerator Units.
- (9) A Guide for Preparing RCRA Permit Applications for Existing Storage Facilities.
- (10) Guidance Manual on closure and post-closure Interim Status Standards.

EXHIBIT 1-10  
(Continued)

OTHER FEDERAL CRITERIA, ADVISORIES, GUIDANCE, AND STATE STANDARDS TO BE CONSIDERED

c. Technical Resource Documents (TRDs)

- (1) Evaluating Cover Systems for Solid and Hazardous Waste
- (2) Hydrologic Simulation of Solid Waste Disposal Sites
- (3) Landfill and Surface Impoundment Performance Evaluation
- (4) Lining of Water Impoundment and Disposal Facilities
- (5) Management of Hazardous Waste Leachate
- (6) Guide to the Disposal of Chemically Stabilized and Solidified Waste
- (7) Closure of Hazardous Waste Surface Impoundments
- (8) Hazardous Waste Land Treatment
- (9) Soil Properties, Classification, and Hydraulic Conductivity Testing

d. Test Methods for Evaluating Solid Waste

- (1) Solid Waste Leaching Procedure Manual
- (2) Methods for the Prediction of Leachate Plume Migration and Mixing
- (3) Hydrologic Evaluation of Landfill Performance (HELP) Model  
Hydrologic Simulation on Solid Waste Disposal Sites
- (4) Procedures for Modeling Flow through Clay Liners to Determine Required Liner Thickness
- (5) Test Methods for Evaluating Solid Wastes
- (6) A Method for Determining the Compatibility of Hazardous Wastes
- (7) Guidance Manual on Hazardous Waste Compatibility

3. USEPA Office of Water Guidance Documents

a. Pretreatment Guidance Documents: 304(g) Guidance Document Revised Pretreatment Guidelines (3 Volumes)

b. Water Quality Guidance Documents

- (1) Ecological Evaluation of Proposed Discharge of Dredged Material into Ocean Waters (1977)
- (2) Technical Support Manual: Waterbody Surveys and Assessments for Conducting Use Attainability Analyses (1983)
- (3) Water-Related Environmental Fate of 129 Priority Pollutants (1979)
- (4) Water Quality Standards Handbook (1983)
- (5) Technical Support Document for Water Quality-based Toxics Control.
- (6) Developing Requirements for Direct And Indirect Discharges of CERCLA Wastewater. (1987)

EXHIBIT 1-10  
(Continued)

OTHER FEDERAL CRITERIA, ADVISORIES, GUIDANCE, AND STATE STANDARDS TO BE CONSIDERED

c. NPDES Guidance Documents

- (1) NPDES Best Management Practices Guidance Manual (June 1981).
- (2) Case studies on toxicity reduction evaluation (May 1983).

d. Ground Water/UIC Guidance Document

- (1) Designation of a USDW
- (2) Elements of aquifer identification
- (3) Interim guidance for public participation
- (4) Definition of major facilities
- (5) Corrective action requirements
- (6) Requirements applicable to wells injected into, through, or above an aquifer that has been exempted pursuant to Section 146.104(b)(4).
- (7) Guidance for UIC implementation on Indian lands.

4. USEPA Manuals from the Office of Research and Development

- o EW 846 methods - laboratory analytic methods
- o Lab protocols developed pursuant to Clean Water Act Section 304(h).

5. Nonpromulgated State Standards

- o State approval of water supply system additions or developments.
- o State ground water withdrawal approvals.

Note: Many other State and local requirements could be pertinent. Forthcoming guidance will include a more comprehensive list.